mosaic

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the george brown college of applied arts and technology

Participation is keystone of athletics program

Few college athletic departments can boast, as ours can, that its intramural and recreational programs attract more than 5,000 students a year from all academic programs and campuses.

In fact, Athletics Co-ordinator Alex Barbier credits the growing success of our varsity teams to broad-based student participation in intramural and recreational activities.

Lunch-time intramural games are held daily at Kensington and Casa Loma campuses from 11 until 2 p.m. In one eight-week period last year, 66 teams were registered at Casa Loma for intramural sports. At Kensington, 44 teams were registered at one time for volleyball alone.

Games are organized into eight-week periods to co-incide with apprenticeship registration. This way a maximum number of students can participate. The lunch period at both campuses is divided into half-hour segments so 12 teams can play on any given day. One week is left open for exhibition games. And every team has a chance to play at least three or four games. Activities range from volleyball to coso hockey (a combination of ball hockey and floor hockey). "The emphasis," says Alex, "is on fun rather than winning."

The evening intramural program is also well-attended. Activities are scheduled Monday, Tuesday and Thursday evenings at Casa Loma Campus. This year volleyball has been scheduled for Tuesday nights and attendance runs up to 27 people a night. Thursday nights are reserved for basketball and gymnastics and usually have an attendance of about 16 or 17.

Alex Barbier leaves for Canadian women's basketball tournament.

Three or four years ago, says Alex, no one participated in evening activities other than varsity or club events.

But he and his staff have encouraged student organizers on all campuses to publicize and promote the evening activities. Now a wide range of students from a variety of backgrounds take advantage of the college's athletic facilities.

The recreational program, consisting primarily of club activities, is also very popular. This year there are clubs in archery, karate, curling, yoga, table tennis, badminton, boxing, ice hockey, jogging, tennis, gymnastics, billiards, chess and checkers, softball, exercise classes for up to 30 persons, and a special fitness class for nurses. To form a club, a group must have at least 12 active members on a continual basis, says Alex. "Each year the recreational program grows in numbers of participants," he says, "with both staff and students taking part."

Stronger intramural and recreational programs, developed over the past three or four years, have provided a broader base of students to draw from for inter-varsity teams, says Alex. And recent varsity successes indicate that this strategy is paying off.

The men's inter-varsity soccer team, under the direction of Edmund Yew Woon, made the Ontario soccer finals this year in Ottawa, for the first time since 1974. Three students qualified for competition in the Ontario tennis championships. The men's volleyball team came 4th in the Ontario finals. The women's volleyball team placed third in its division. Four students made it to the southern regional playoffs in badminton. The curling team, for the first time, took fifth place in its division. The men's basketball team placed fourth in its division. Two students won table tennis titles in the Ontario finals last year, and two other team members placed third in the men's doubles. Most recently, the women's basketball team won the Ontario OCAA finals in Windsor, and earned the right to advance to the first-ever Canadian women's championship tournament in Montreal.

In addition to its intramural, recreational and varsity programs, the Athletics Department also hosts several special events each year: men's and women's high school basketball and volleyball tournaments; a floor hockey tournament for colleges; a community men's basketball summer league; a 17-and-under boys' basketball league.

Credit for the College's outstanding athletics program must go not only to Alex Barbier, his assistants Val Pozzan and Edmund Yew Woon, and secretary Maria Medved, who comprise the department's full-time staff, but also to a group of dedicated part-time and voluntary staff of coaches and assistants who willingly give up their evenings and weekends to help make the program a success.

The GBC connection

Lois Smith

Silver Jubilee Medal

Dora de Pedery Hunt

Dance Chairman Lois Smith was recipient recently of a Canadian Silver Jubilee Medal, commemorating the 25th anniversary of the reign of Queen Elizabeth. The medal has been awarded to outstanding Canadians in the professions, education, sports and the arts, as a token of the esteem in which they're held by their colleagues. Miss Smith is a founding member of the National Ballet and Canada's first prima ballerina.

On one side, the medal carries an image of the Queen. The reverse side (shown above) is the creation of George Brown College Governor Dora de Pedery Hunt. Mrs. Hunt, a distinguished Canadian medalist and artist, also designed the world's first $100 Olympic gold coin.

Business is booming for Printing Technician graduate

Jim Cicci

Jim Cicci, 24, had little more than ideas and energy when he graduated from the three-year Printing Technology program in 1975. Next year he expects his signage company "Metal Images" to produce a quarter of a million dollars in sales.

After his second year at George Brown, Jim went to work for the Toronto Zoo for the summer, on a freelance basis, as a signmaker. He chose a commercial metal-photo process available in the States to make the signs, and continued working for the zoo part-time through his third year at school and the following summer. During this time he produced some 4,000 signs.

When his work at the zoo was nearly finished, Jim was so impressed with the sign-making process, which hadn't yet been marketed in Toronto, that he decided to form his own company using it.

A friend introduced him to a marketing consultant who agreed to act as his consultant in exchange for five per cent of the new company's stock in trust. The marketing consultant introduced him to the owner of a large holding company who also volunteered his services as a consultant for five per cent. From there he was directed to a young lawyer and an accountant who were willing to help him for a minority share.

Finally the Federal Business Development Bank agreed to give him a loan for equipment. A chartered bank agreed to match the FDB loan, and when it looked like the first loan might fall through, his new business associates applied to the FDB

After more than a year of research, experimentation, building and rebuilding, work is finally nearing completion on the Crystal Palace model for display at the CNE this summer.

Plastic roof sections are currently being bent into shape using a four-foot oven in the Sheet Metal shop. Sheet metal staff and students are also making the central dome under the main tower. This section has been difficult, says Project Co-ordinator Erik Simundson, because it's obscured in all but one of the available photographs of the Crystal Palace.

Miniature flags for the palace are being made by the Graphic Arts Division.

Erik has also started the painstaking work of hand-painting the 20-odd figurines, wagons and animals that will dot the landscape around the palace. Some of the figures are lead, some plastic. Some have to be completely converted to the styles of the day and Erik has borrowed books showing period fashions from the Fashion Technology Division to use as a guide.

One complication, he says, has been the ornateness of the ladies' fashions of that era. Bustles have had to be added with a special molding putty, and extra trim and ornamentation added to the gowns.

Careful attention is paid to all details on the figures, right down to the eyes and flesh tones. Facial features, which are hand painted, have to be exaggerated, says Erik, for much the same reason that actors' makeup is exaggerated. Different tints have to be used for the flesh tones of children than, say, a workman, who has to look dirty.

The horses that will pull the wagon and carriages are particularly difficult, he says, because most of the commercial model horses look too well-fed for the typical work horses of the day.

To correct this, he'll use plastic figures made in France, which can be easily modified so that their ribs show. Veining in the horses necks is also more realistic in the plastic horses, he says. The harnesses, however, will have to be handmade.

Work has started on the complex central tower of the Palace, and prefabricated sections are being completed now, for assembly in time for a College show-and-tell next month. Except for finishing touches, the model complete with landscaping and hand-painted figures, will be on display in the Casa Loma staff lounge for staff and students to preview.

Affirmative Action program underway at George Brown

Mary Bruno, in addition to her responsibilities as High School Liaison Officer, is currently assisting Muriel Davidson, Director of Health Services and Women's Advisor for the College, in the implementation of an "Affirmative Action" program at George Brown.

The program's objective is to promote equal opportunity for interested, qualified women in employment and career advancement. "In effect, Affirmative Action means using the most competent person for the job," says Miss Davidson.

Mrs. Bruno is collecting statistical data on the present situation at the College. This information will help in evaluating what problems exist relating to sex stereotyping, and what solutions might be implemented to increase opportunities at the College for female staff and students.

Courses at George Brown have always been open to men and women, says Miss Davidson. "It's only been in recent years, however, that women have begun to enroll in traditionally male-dominated trade areas. The percentages are still low," she says.

To avoid sex-stereotyping, all College literature is now carefully edited to eliminate inferences that programs or careers are male-or female-oriented. Mrs. Bruno has also been working in the high schools with both male and female students who are interested in non-traditional career paths.

Her experience in this area makes her an ideal candidate for similar activity within the College. Part of the job will be to assist female students already enrolled in non-traditional programs, by providing films, seminars, etc., on equal opportunities.

Both she and Miss Davidson are available, on campus or by phone, to discuss concerns, problems and suggestions. Mrs. Bruno can be reached at extension 223, Miss Davidson at extension 207.

people

New staff and changes

Maintenance: Domenico Giraldi, Andrij Baron, Elia Evonovski, Charles Goodman, Scott Heron, Gerald Rose, St. James Campus; Samuel Reid, Casa Loma Campus. **Business and Commerce:** Ruth Fisher, secretary to Dean Jim Turner. **Student Services:** Ivana Lippeti, Placement Office, Casa Loma Campus. **Registrar's Office:** Francine McManus, receptionist; Donna Pritchard, Statistics and Records. **Admissions:** Jacqueline Viger, College Campus; Wendy Winters, St. James Campus. Wendy was formerly an OCAP student in the Architectural Division. **Stores:** Ronald Sarpazin, Kensington Campus. **Fashion Technology:** Domenica Semplicio, secretary to Chairman Gerry Johns. **Food Technology:** Amy Seko, Hospitality Resources Project; Joan Tackey, Food Service Manager, Kensington Campus. **Transportation:** Richard Sider, driver, 146 Kendal Avenue. **Allied Health Auxiliaries:** Debra Tilson, receptionist, Casa Loma Campus. **Driver Training:** Robert Lariviere, instructor Polson Street. **English and Liberal Studies:** Josephine Mariani, secretary, Casa Loma Campus.

Departures

Bookstore: good luck to Bruce Osterhout, previously with the mail room at 500 MacPherson, who has left the College to return to his family home in Manitoba. **Library Services:** Lucy Kowalchuk has left the St. James library to move to London, Ontario, with her husband. **Student Services:** a farewell luncheon was held at the Boulevard Club in March for Wayne Gartley, Co-Ordinator of Career Counselling and Placement. Wayne joined the College in 1969 as an ESL teacher at College Street. He has been head of the Placement Office at MacPherson in recent years and plans to pursue his interest in career counselling as a private consultant.

Congratulations

Graphic Arts: Warren Huether has been appointed Chairman of the Graphic Arts Division. He was previously co-ordinator of the Bindery Department. He's also a graduate of the College's Printing Technician program, and received his B. of S. degree from Rochester Institute of Technology in printing technology. **Mathematics and Science:** Bernard Pears has been appointed Chairman in the Mathematics and Science Division, St. James Campus. He was formerly a co-ordinator in the division. Four faculty members have been named co-ordinators in the division — Karen O'Kain, Bio-Science courses, Casa Loma and St. James Campuses; Malcolm Mackay, Business and Mathematics, St. James Campus; Zacharias (Zac) Bajin, Mathematics and Science, St. James Campus; and Emile Yanchula, Physical Sciences, Casa Loma Campus. **Student Services:** Marcella Dib, secretary, Placement Office, St. James Campus, from the Nursing Division. Olive Masters, information clerk, 146 Kendal Ave., from Health Services. **Registrar's Office:** Bronis Herbowy, Registration Systems Co-ordinator, MacPherson, from Information Systems. **Academic Council:** Lynn Martin, secretary, from Business and Commerce. **Health Services:** Noela Meade, receptionist, Kensington Health Centre, from Allied Health Auxiliaries. Mary O'Neill, receptionist, Casa Loma Health Centre, from St. James Admissions. **Admissions:** Nezlyn Turner, clerk, St. James, from Statistics and Records.

Happenings

Congratulations to newly-weds: Judy McIntyre, E.S.L., College Campus, now Mrs. Siegel; Shirley Timm, Nursing, St. James, now Mrs. Lesch; Diane Uytterlinde, Nursing, Nightingale, now Mrs. Milledge Flood.

Business is booming...cont'd from p.1

on his behalf. Both loans came through and Jim's entrepreneurial career was launched.

In spite of a $10,000 loss the first year, the business has grown rapidly.

Jim has produced signs for the CN Tower, two murals for Eaton's Centre, all the signs and artwork for a large medical building in downtown Toronto, and several jobs for the City of Toronto's "City Home Non-Profit Housing" organization. A year ago he opened a division called "Balke Design Studio" with a young artist friend. The design division handles all art work for the sign company which in turn steers any design work for brochures, annual reports, publications, etc., to the design company. "It's doing just as well in sales now as Metal Images," Jim says.

Last month Jim bought a major share of "Entertainment News", a 2½-year-old weekly publication distributed in clubs, theatres, record stores, etc., aimed at the 18 to 35 market.

Another George Brown printing graduate Rick Taylor, now a sales representative for a large Toronto printing firm, handles all the company's printing work.

Jim recently hired a general manager, Nicolas Zabaneh, who has a master's degree in Business Administration.

"I'm still a technician," says Jim. "I still change the lights. I need someone who knows how to write, deal with people, the banks."

He has a staff of seven now. "I don't pay people a lot of money. They start at minimum, but if they start making money for the company, I pay them. Some people here are making $10 an hour.

"I've had tempting job offers since I started the business," says Jim. "One company offered to buy me out.

"But I'm not ready to work for anyone else yet. I've sacrificed too much. I work 12 hours a day, seven days a week. I have no social life to speak of, no spending money. All the money goes back into the business to cover loans, the payroll, expenses.

"But I enjoy it."

Where does he get his entrepreneurial drive?

"I was a hyperactive baby," he says. "In school I was bored, a trouble-maker. I got kicked out of one high school. But I never had a hard time learning. If I knew I could use it, I learned it. I finally took graphic arts in a technical school in Thistletown. I enjoyed it, realized that what they were teaching had some practical application. After high school I decided to go on in graphic arts."

Jim's uncle, who sells printing equipment, advised him to go to Ryerson or George Brown. He chose George Brown, where he says he received the "best technical training available." In his last year he also took a night course at Ryerson in production control and estimating.

Jim is currently vice-president of the George Brown Graphic Arts Graduate Student Association, of which he is a whole-hearted backer. His friend Rick Taylor is president. The two of them are organizing a graduation/alumni party at the Ramada Inn in April.

"The contacts you make through an alumni association are invaluable," he says.

When does he expect to start making money?

"I only know one thing for sure," he says. "There are no guarantees in business, no security, you get out of it what you put in.

"But if I go broke tomorrow, I've learned enough in the last three years that I know I'll have no trouble getting a job. I know I can make somebody money."

THIS WELDING PHOTOGRAPH, taken by English instructor Thom Sunega for the 1978/79 Career Guide [p.13], was chosen from among 700 to 800 entries, to hang at the Hart House Annual Photo Contest in March. Thom also won first prize in the color print division for a picture of a boardwalk in a Saskatchewan ghost town.

Staff active in outside professional groups

Involvement with professional and trade organizations is an important element of the College's overall public relations effort.

Three events have taken place recently that are typical of various departments' continuing interaction with their professional and industrial communities.

The College became a corporate member — a new designation — of the Canadian Institute of Metalworking, in December. The Institute is sponsored by the government, through McMaster University, to promote numerical control in the Canadian metalworking industry. George Danac, machine shop co-ordinator in the College's Electro-Mechanical Division, has been closely associated with the Institute since its formation 10 years ago.

"Each year," he says, "one or two of our graduates are chosen to take advanced training in numerical control machining and programming at the Institute. The training period may vary from one to four years. Students are paid while they learn, and also have the option of entering a university program at McMaster while they're there.

"Numerical control constitutes an important aspect of training in our two-year toolmaking program," says Mr. Danac. "George Brown is the most advanced college in this field.

"Corporate membership in the Institute will entitle us to use the Institute's full facilities and resources."

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Machine Shop Co-ordinator George Danac with Canadian Institute of Metalworking membership certificate. New three-axis numerical control milling machine is shown in background.

Len Blizzard, co-ordinator of the Acoustics program in the Electro-Mechanical Division, presented a paper on Acoustical Materials to the Audio Engineering Society, Toronto Chapter, at its January meeting. Mr. Blizzard's association with this organization over several years has recently resulted in the Society changing the location of its meetings from Ryerson to George Brown.

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College Archivist John Hardy, president of the Toronto Area Archivists Group this year, has just finished hosting a six-week series of workshops for the Group, called "Care of Records". The workshops, held in the Archives, at 146 Kendal, on Wednesday evenings since February 15, dealt with the storage, handling, repair and preservation of manuscripts, photographs and books.

A week-long seminar called "Introducing Archives" is planned for May 1-5 at Casa Loma Campus.

Safety first in maintenance department

"Safety in the workplace has become a matter of increasing concern among college plant directors and at the Ministry," says George Brown's Director of Plant and Planning, Michael Rant. "And we're no exception.

"Last year our maintenance department lost 720 manhours due to accidents. That's one reason a safety program was introduced last fall."

Under the new program, maintenance group leaders review monthly any accidents involving their staff.

"One result of this review is that we've identified ladders as particularly hazardous for our workpeople," says Mr. Rant. "So arrangements have been made to destroy all old and unserviceable ladders and replace them with new ones."

In addition, maintenance and transportation staff are now required to wear appropriate safety clothing, particularly steel-toed shoes. Safety hats, goggles, gloves and aprons are also provided in appropriate locations for work requiring their use.

Use of corrosive chemicals is another concern. Capital funds have been requested to improve access to building roofs so chemicals can be handled more safely when being carried to heating and cooling systems there.

Other general steps that have been taken to improve safety standards include: providing better access to building plants including installation of catwalks; improved lighting in the equipment penthouses; high-intensity mobile lights where needed; bright painting of ladders in boiler rooms so people won't miss their step; fire extinguishers and improved storage space in workshops; and replacement of potentially hazardous power cables. Tradesmen are also discouraged from touching equipment they aren't qualified to work with.

"The concerns of the department aren't limited to the maintenance staff, however," says Mr. Rant. "We're constantly on the lookout for hazardous situations for the whole college community.

"This unceasing stress on safe working conditions has already increased the safety consciousness of the staff," says Mr. Rant. "We hope it will help keep our accident rate respectably low."

A TEACHING AID worth several thousand dollars was donated to the College by Holophane Co. Ltd., at a brief ceremony at Casa Loma Campus in March. Above, President Adrian van Oss and GBC's Ron Kay view the unit which will be used to teach principles of residential and industrial lighting.

Apparel Management students get first-hand experience at boutique

Good news for bargain hunters at "College Creations" boutique, Kensington Campus.

A bargain is hard to find these days.

But not at "College Creations", a boutique run by first-year Apparel Management students at Kensington Campus, every Friday from 9:30 a.m. to 2:00 p.m.

Women's skirts are selling in the $10 range, children's dresses for $2.00, scarves for 99¢.

The boutique, which opened in February, and operates out of Room 3204 in Building 3, is a registered company set up by students as a class project under the guidance of instructor Gerry Fenkel. The project provides practical experience in marketing, merchandising, accounting and finance.

Each student in the class of 20 has a $10 share investment in the company. Any profits will go towards a trip to the Bobbin Show in Atlanta, Georgia, next September.

President of the company is Janice White. Donna Louis is assistant accountant and salesperson. David Fishman, who provided the photograph accompanying this story, is in charge of public relations and photography. Theresa Newby, Younghee Choi, Una Fung, Margaret Giardino and Carol Ahamed have also played a prominant role in setting up and operating the business.

The first week it opened, more than $500 in merchandise was sold. Some of the garments are made by students. Other items are bought wholesale from manufacturers, and the "College Creations" label added.

The range of merchandise has been expanded from the first week to include skirts, dresses, scarves, belts, handbags, men's shirts, children's clothing and beachwear.

Besides bargain prices, customers get free coffee and cookies while they shop.

"College Creations" closes the end of April when students start preparing for exams.

The First Ten Years

The following article on the Electro-Mechanical and Architectural Technology Divisions is the second in a series on the development of the divisions since the formation of George Brown College in 1968. Each issue of the Mosaic this year will feature one or two divisions.

When George Brown College was created in 1968, three new divisions were formed to accommodate the construction, machine and electrical/electronics programs of PIT, PITO and the Adult Training Centres. The divisions were Electrical/Electronics, Engineering and Architectural Technology.

Under the Electrical/Electronics Division were grouped all the related electrical and electronics Manpower, apprenticeship and post-secondary programs.

The Engineering Division was comprised of programs related to welding, machine shop, mechanical drafting, orthotic/prosthetics (added in 1970), watchmaking, instrumentation, plastics and coatings.

The Architectural Division had all the programs relating to construction, together with civil engineering and related courses like blueprint reading and drafting, and the service trades such as refrigeration and oil burner servicing. Screenprinting and signwriting also came under the Architectural Division but were later transferred to the new Graphic Arts Division. A very heavy portion of the Architectural Division at that time was devoted to apprenticeship training.

It was a time of change and growth and, unavoidably, confusion.

Dean of Architectural Technology Jack Stirling can remember when his programs were scattered over every campus: 21 Nassau, Teraulay, 37 Dartnell and the Adult Training Centres.

In 1972, when the dust had finally settled, and the new building at 160 Kendal Avenue was underway, all the Architectural programs were consolidated at Casa Loma Campus.

"Our staff filled two huge volumes identifying the requirements of the division for the new building," says Mr. Stirling. The award-winning structure was in fact designed to act as a teaching aid for the courses, with all the ductwork, piping, etc., left exposed for viewing and study.

Most of the Engineering programs were also located at Casa Loma Campus.

Electrical/Electronics was split between Teraulay and Casa Loma. The electronics programs later moved to St. James when the new campus opened in 1975.

In October 1975, the Engineering Division was combined with Electrical / Electronics and Architecture, and Electrical/Electronics became the Electro-Mechanical Division. The welding, machine shop and instrumentation programs became part of the Electro-Mechanical Division and Mechanical Drafting was merged with the Architectural Drafting Department. Orthotic /Prosthetics subsequently became part of the Allied Health Auxiliaries Division, and Watchmaking joined the Fashion Division. The two-year, post-secondary program in Plastics was disbanded because of decreasing enrolment.

Apprenticeship and Manpower programs historically have comprised a major portion of both the Electro-Mechanical and the Architectural Technology Divisions.

The Architectural Division, for example, has the largest number of construction trades apprenticeship programs in the Province.

"We've also expanded considerably in the Manpower area," says Mr. Stirling, "and have one of the heaviest Manpower purchases in the College."

In the Electro-Mechanical Division the breakdown is about 20 per cent post-secondary, 40 per cent Manpower and 40 per cent apprenticeship.

An interesting development in the post-secondary areas of the two divisions has been the offering of the three-year-in-two technologist programs, which are unique among the Ontario colleges. The programs are: Electronics Technologist, Electrical Technologist, Instrumentation Technologist and Survey Technologist.

Students receive the same number of instructional hours in these two-year programs as they would in regular three-year programs, by attending classes 45 weeks a year.

The Electro-Mechanical Division offers regular two-year, post-secondary programs in Electrical Design, Electrical Technician, Acoustics, Electronic Data Processing, Electronics Technician, Toolmaking, Instrumentation Technician and Welding Specialist (one year).

The Architectural Division offers two-year programs in Civil Engineering; Air Conditioning; Construction Technician; Architectural, General and Mechanical Drafting; Tool and Die Design; and Process Piping.

The newest post secondary addition in Architectural Technology is the two-year Piano Technician program which opened last fall. Hand and craft skills needed for the rebuilding of pianos are closely related to skills taught in other building trades, says Mr. Stirling.

With the advent of global funding, growth in the post-secondary areas of the two divisions is expected to level off, and more emphasis placed on quality of students rather than quantity.

In addition to their own post-secondary programs, both Architectural divisions also provide trades instruction for post-secondary programs of other College divisions.

Besides regular classes for post-secondary, Manpower, apprenticeship and part-time students, the Electro-Mechanical and Architectural Divisions have a heavy involvement in industrial training on an ad-hoc basis, both directly and through the Industrial Training Division.

The Architectural Division runs part-time carpentry courses for Occupational Therapy students from the University of Toronto, for example.

Both divisions, in collaboration with local unions, run upgrading courses in a variety of trades from welding to sprinkler fitting.

Construction methods and materials courses have been offered to personnel of various municipalities; metrication courses to government agencies, school boards and local townships.

Courses have been held for building and property inspectors from Toronto and Metro municipalities. Seminars and part-time courses have been designed for the personnel of major oil companies, manufacturers and government agencies concerned with energy conservation.

Because of the two divisions' expertise in the building trades, they've often been called on over the years to work on special projects for the College. For example, masonry students did much of the brickwork in the new cafeteria at St. James Campus as a class project.

The two divisions are also currently involved in building a model Crystal Palace for the College display at this year's CNE. More than a year of research and construction work, involving staff and students of several departments, has gone into the project. The Architectural Division's Erik Simundson has been kept busy on nearly a full-time basis designing and co-ordinating it.

"We are often called on for advice and expertise in connection with plant and construction problems," says Mr. Stirling. "Where it can be worked in and there's time and it's valid, we do it."

The creation of innovative instructional techniques is by no means at the bottom of the priorities lists of either the Electro - Mechanical or the Architectural Divisions.

The computer-assisted training program, developed by Bill Dykstra, for the Electro-Mechanical Division, has been studied widely by educators across the Province.

The Architectural Division is currently in the process of developing four Training Improvement Programs, with funding from the Ministry of Colleges and Universities.

The courses are in plumbing and stationary engineering.

The plumbing program is already completed and a pilot of it is currently underway at Conestoga College in Guelph, for evaluation.

Architectural Chairman Ian Irving hopes to "wrap up" the other three in time for a few trial classes next fall.

Similar Training Improvement Programs are underway in Welding, Electrical Technology and Instrumentation.

Advances in technology over the past 10 years, though extremely rapid, have not created the problems, in terms of expense, for programs in Electro-Mechanical and Architecture, as they have in Divisions like Graphic Arts. Technological advances have actually proved advantageous for programs like Electronics, says Jack Lumley, who was dean of the Electrical/Electronics Division for most of this period.

"In 1968, a mini-computer cost about $30,000," he says. "In 1971 it cost about $6,800. A micro-computer can be purchased today for about $2,000 — the equipment is smaller, cheaper and better."

Industry has also been very helpful in both divisions in donating a significant amount of equipmnt for workshops and labs. The sprinkler fitting workshop in Architectural Technology, for example, has had close to $50,000 worth of equipment supplied by the industry apprenticeship committee, comprised of both union and management.

Mr. Stirling sees a growing emphasis on controlled co-operative training, where students will get at least part of their training 'on-the-job', for his division in the future.

This is more easily accomplished in the mechanical trades areas, he says, where work is done in a controlled plant environment.

The construction industry is much more fluid and, therefore, more difficult to involve in a viable co-op program, he says. But he's confident that problems can be overcome.

"Apprenticeship," says Mr. Stirling, "is the ultimate co-op program." He says he expects to see a lot more growth and innovative approaches in this area as the economy recovers and expands.

"Open Lab" held by Electro-Mechanical Division

Electronics and Instrumentation Instructor Roger Sarker organized an "Open Lab" at St. James Campus in March to display first-year student projects.

The assignment involved selecting a project of sufficient complexity, bread boarding, constructing a printed circuit board, assembling and testing the network. A formal written technical report was also required.

The projects were judged by Dr. Straka, dean of the Electro-Mechanical Division; Chairman Ray Dodds, and former dean Jack Lumley. The three best projects were: a thermo couple meter by Steve Nicholls, a digital capacitance meter by Syareif Lukman, and an optical synthesizer by John Christie.